**PARALOID™ EXL-2620 (Powder)**

**MBS Impact Modifier**

For Polycarbonate, Polyesters and their Blends

**Regional Product Availability**

Asia-Pacific

**Description**

PARALOID™ EXL-2620 modifier is a general purpose MBS core-shell impact modifier providing an excellent balance of impact resistance and modulus retention in a variety of engineering resins. Thanks to the core-shell structure and well designed MBS composition, the improvement in impact is obtained without impairing other mechanical properties, such as modulus and heat distortion temperature, and with a minor effect on weatherability. Improved impact properties can be expected in the following engineering resins: polycarbonate and its blends (PC/PBT, PC/ABS, PC/PET) and polyesters (PET, PBT).

**Excellent Dispersion**

PARALOID™ EXL-2620 modifier has a cross-linked poly (butadiene/styrene) core with a grafted poly-methyl methacrylate shell. This core-shell structure allows the product to disperse as discrete particles in the matrix. It will not dissolve in solvents or melt.

**Conversion Process**

PARALOID™ EXL-2620 modifier finds utility in a variety of conversion processes typically encountered for engineering resins, including extrusion, injection molding, blow molding, and thermoforming.

**Compounding and Injection Molding**

PARALOID™ EXL-2620 modifier is particularly easy to disperse into polycarbonate and in polycarbonate based blends when compounded on twin-screw extruders. It only slightly influences the rheology of the polymers. When molding modified polycarbonate and its blends, minor adjustments of the injection molding parameters may be necessary.

**Physical Property**

- **Appearance**: Free Flowing White Powder
- **Bulk density**: 0.42 ± 0.1 g/cc
- **Volatile matter**: <1.0%
Impact Performance

Toughness of Polycarbonate

The notch sensitiveness and thick wall brittleness of polycarbonate can be significantly improved with the addition of PARALOID™ EXL-2620 modifier.

![Notched Izod Impact at 6.4mm in Polycarbonate](image)

The toughness of polycarbonate can also be improved at low temperature.

![Notched Izod Impact at 3.2mm in Polycarbonate](image)
Toughness of PC/ABS Blends
Not only can the toughness of PC/ABS be improved with PARALOID™ EXL-2620 modifier, but better phase compatibility and less shear surface marks can also be achieved.

Heat Distortion Temperature is not altered by the addition of PARALOID™ EXL-2620 modifier.

Recommended Use Levels
The use level will depend on the required performance in a particular matrix. Please refer to the previous charts for guidance or call your Dow technical service contact.

Standard Packaging
For PARALOID™ EXL-2620 modifier, the standard package is a 20kg paper bag.
Handling Precautions

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.

CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

Medical Applications Policy

NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS: Dow will not knowingly sell or sample any product or service (“Product”) into any commercial or developmental application that is intended for:

- long-term or permanent contact with internal bodily fluids or tissues. “Long-term” is contact which exceeds 72 continuous hours.
- Use in cardiac prosthetic devices regardless of the length of time involved (“cardiac prosthetic devices” include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic baloons and control systems, and ventricular bypassassisted devices);
- Use as a critical component in medical devices that support or sustain human life; or
- Use specifically by pregnant women in applications designed specifically to promote or interfere with human reproduction.

Dow requests that customers considering use of Dow products in medical applications notify Dow so that appropriate assessments may be conducted. Dow does not endorse or claim suitability of its products for specific medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that the Dow product is safe, lawful, and technically suitable for the intended use. DOW MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF ANY DOW PRODUCT FOR USE IN MEDICAL APPLICATIONS.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user’s responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Plastics Additives Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.
Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.